



YETDA INDUSTRY LTD.

5mm White Super Bright LED Lamps S500AW2G

5mm with InGaN Dice ◦

Excellent product quality and reliability

Encapsulated with White diffused Lens Package ◦

Long Leads ◦

Absolute Maximum Ratings :

Parameter	Maximum Rating	Unit
Peak Forward Current	120	mA
Continuous Forward Current	20	mA
Operating Temperature Range	-40°C to +85°C	
Storage Temperature Range	-40°C to +85°C	
Lead Soldering Temperature	260°C for 3 seconds 1.6mm(0.063 inch) from body	

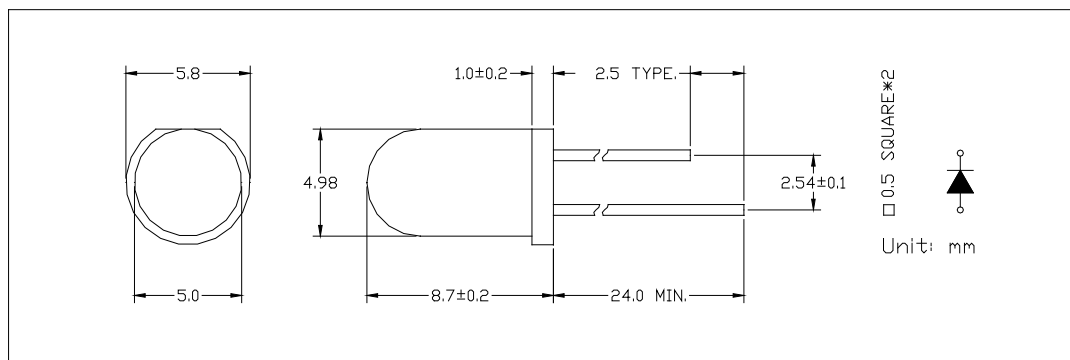
Electro-Optical Characteristics (Ta = 25°C)

Parameter	Test Condition	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage	IF = 20mA	Vf	2.7	3.2	3.5	V
Reverse Current	VR = 5V	Ir			10	uA
Luminous Intensity	IF = 20mA	Iv	2500	3800	5700	mcd
Spectral Bandwidth	IF = 20mA	$\Delta\lambda$				nm
Wavelength	IF = 20mA	X		0.285		
	IF = 20mA	Y		0.295		
Viewing Angle	IF = 20mA	2 θ 1/2		80		deg

Please refer to CIE1931 Chromaticity Coordinate diagram

Package

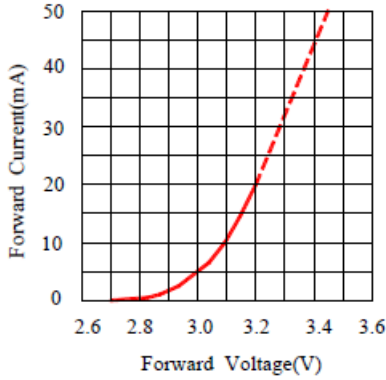
Item: 500



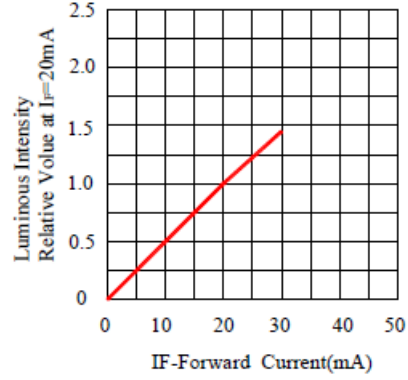
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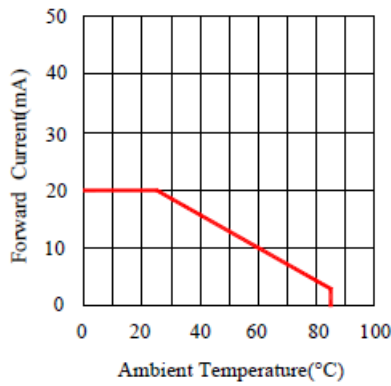
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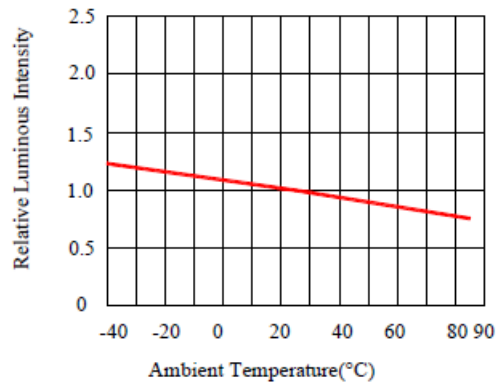
FORWARD CURRENT Vs. FORWARD VOLTAGE



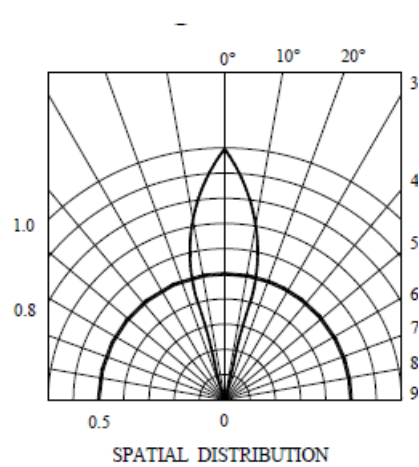
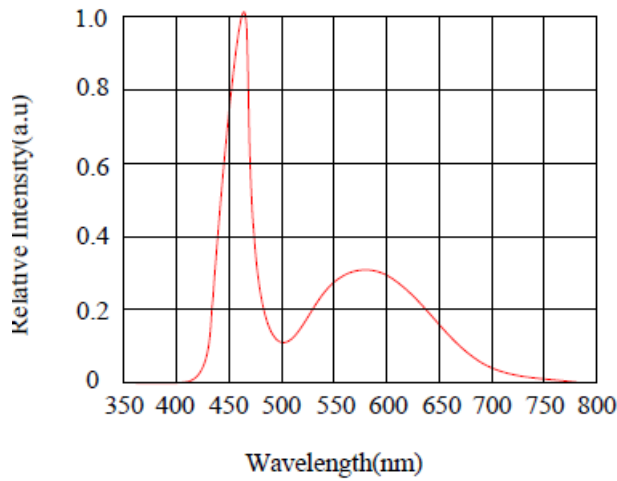
LUMINOUS INTENSITY Vs. FORWARD CURRENT



FORWARD CURRENT DERATING CURVE



LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE



SPATIAL DISTRIBUTION



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•Soldering:

1. Manual of soldering

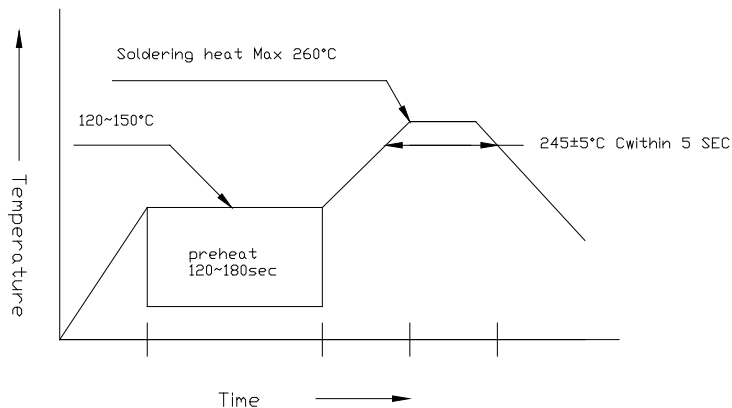
The temperature of the iron tip should not be higher than 260 °C and

Soldering within 3 seconds per solder-land is to be observed

2. DIP soldering (Wave Soldering):

Preheating: 120 °C ~ 150°C within 5 sec. 260°C (Max)

Gradual Cooling (Avoid quenching)

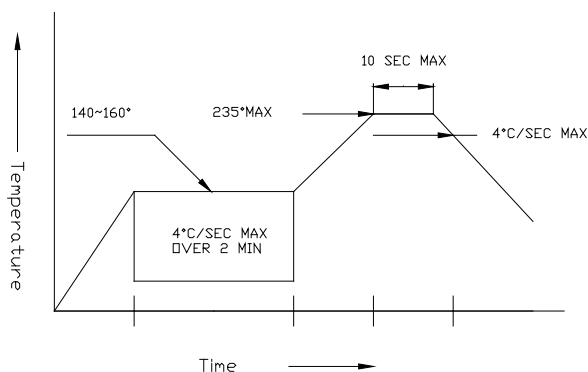


3. Reflow Soldering

Preheating: 140 °C ~ 160°C ±5°C, within 2 minutes.

Operation heating: 235 °C (Max) within 10 seconds (Max)

Gradual Cooling (Avoid quenching)



•Handling:

Care must be taken not to cause to the epoxy resin portion of Yetda LEDs while it is exposed to high temperature.

Care must be taken not rub the epoxy resin portion of Yetda LEDs with hard or sharp article such as the sand blast and the metal hook